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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,483	07/13/2005	Stefan Beichl	038741.55710US	5535
23911 CROWELL &	7590 12/21/2007 MORING LLP		. EXAM	INER
INTELLECTUAL PROPERTY GROUP			LEE, GILBERT Y	
P.O. BOX 1430 WASHINGTO	0 N, DC 20044-4300	ART UNIT 3673	ART UNIT .	PAPER NUMBER
W.15111.VG.10	20200		3673	
			MAIL DATE	DELIVERY MODE
		•	12/21/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/518,483	BEICHL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Gilbert Y. Lee	3673				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
,— .	Responsive to communication(s) filed on 10 October 2007.					
,	·					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1 and 3-6 is/are pending in the application.						
4a) Of the above claim(s) <u>6</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1 and 3-5 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
o) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  6) Other:						

3.

### **DETAILED ACTION**

1. The amendment filed 10/10/07 has been entered.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoffelner et al. (DE Patent No. 3,507,638) in view of Ingistov (US Patent No. 5,961,279).

Regarding claim 1, the Hoffelner et al. reference discloses a sealing arrangement (Fig. 1c) for sealing a gap between two components (Fig. 1c) which can move rotationally with respect to one another about a common axis (e.g. axis of conical shaft in Fig. 1c), having a brush seal (e.g. 4) that interacts with a sealing surface (e.g. surface of conical shaft in Fig. 1c in contact with brush seal) of the second component, wherein the sealing surface is a surface of a shaft end of the second component which is conical in form (Fig. 1c), including a brush seal having a first and second backing plate (Fig. 1c).

However, the Hoffelner et al. reference fails to explicitly disclose a first component, the first component being axially displaceable and adjustable with respect

Application/Control Number: 10/518,483

Art Unit: 3673

to the second component, the first component being disposed axially adjacent to the second component shaft end, and means for axial displacement and adjustment being

provided between the first component and a casing surrounding the first component.

The Ingistov reference, a brush seal arrangement, discloses a first component (e.g. including 48 and 50 or 32'), the first component being axially displaceable and adjustable with respect to the second component (e.g. through fastener 50, or through element 32' and the channel which it rests in), the first component being disposed axially adjacent to the second component shaft end (Fig. 4), and means for axial displacement and adjustment (e.g. 50 or through element 32' and the channel which it rests in) being provided between the first component and a casing (e.g. 32' or 18) surrounding the first component.

It would have been obvious to one of ordinary skill in the art at the time of the invention to provide a first component and axial displacement and adjustment means to the Hoffelner et al. reference in view of the teachings of the Ingistov reference in order to provide an arrangement in which the brush seal can be replaced easily.

Regarding claim 3, the Hoffelner et al. reference, as modified in claim 1, discloses the means for axial displacement and adjustment comprising a sliding seat (Ingistov, e.g. 54), an adjustment nut (e.g. 32') which is fitted into the casing (18) and a displacement screw thread (e.g. threads on element 50) cut into the first component.

Regarding claim 4, the Hoffelner et al. reference, as modified in claim 1, discloses the axial displacement being controlled by at least one threaded connection

Application/Control Number: 10/518,483

Art Unit: 3673

(e.g. 50 and threads in element 32') between one of the components (e.g. 48) and a casing (e.g. 32') which receives said component.

Regarding claim 5, the Mayr et al. reference discloses the axial displacement being controlled by a mechanical adjuster (e.g. 50).

## Response to Arguments

3. Applicant's arguments filed 10/10/07 have been fully considered but they are not persuasive.

With regards to the applicant's argument of the Ingistov reference, the argument is not persuasive because screws 50 make the first component capable of axial adjustment. it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Furthermore, if the screws are not fastened tightly or if the screws become loose over time, then the brush seal will be capable of axial movement.

#### Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

Application/Control Number: 10/518,483 Page 5

Art Unit: 3673

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gilbert Y. Lee whose telephone number is 571-272-5894. The examiner can normally be reached on 8:00 - 4:30, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patricia L. Engle can be reached on (571)272-6660. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

Application/Control Number: 10/518,483

Art Unit: 3673

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GL December 15, 2007

Patricia Engle

Supervisory Examiner

Page 6

Tech. Center 3600